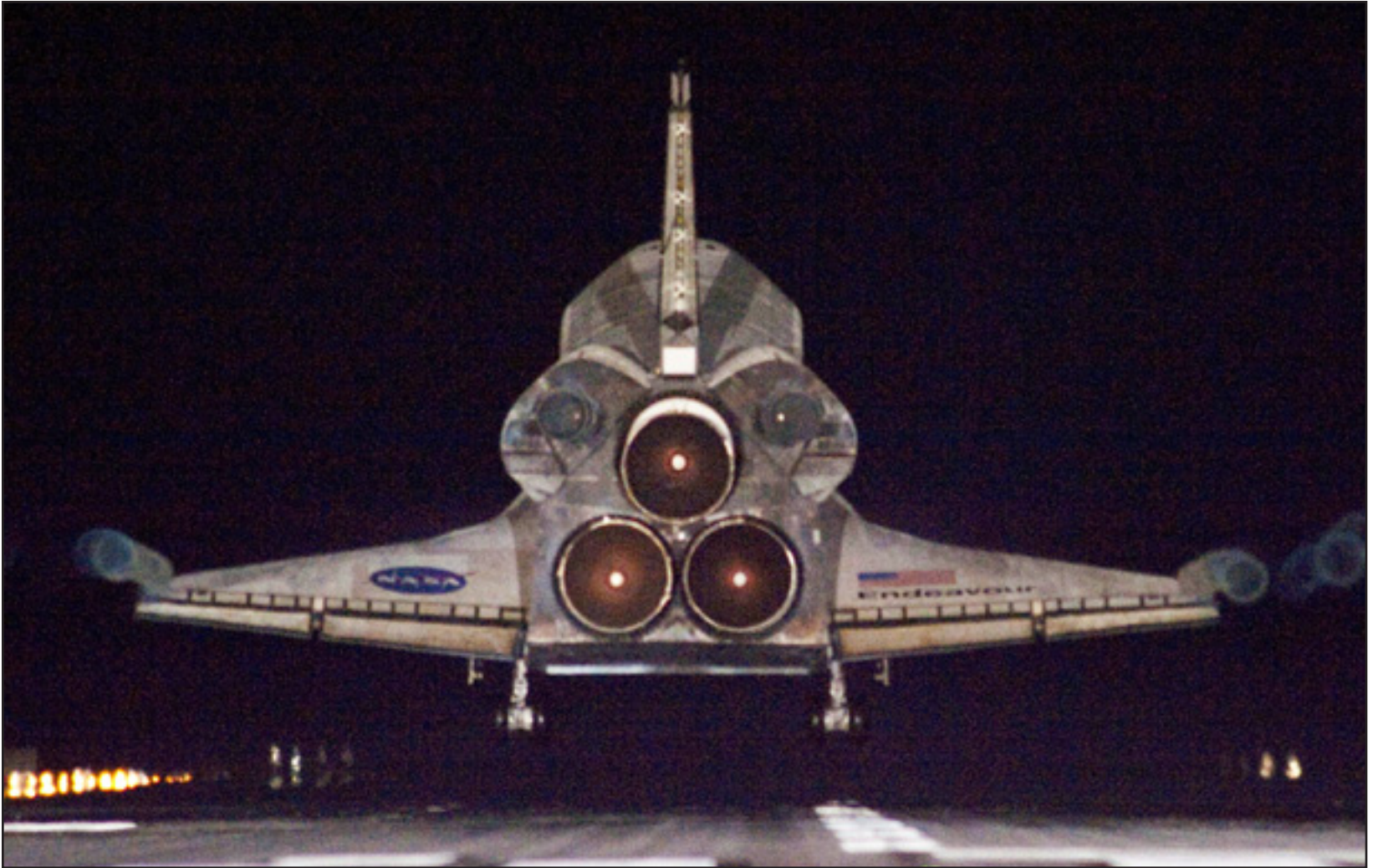
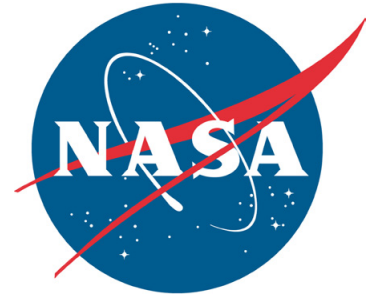


# Spaceport News

John F. Kennedy Space Center - America's gateway to the universe



NASA/Sandra Joseph - Kevin O'Connell

## Endeavour ends STS-134, final mission

Xenon lights help lead space shuttle Endeavour home on June 1. Endeavour landed for the final time on the Shuttle Landing Facility's Runway 15, marking the 25th night landing of NASA's Space Shuttle Program. Main gear touchdown was at 2:34:51 a.m. EDT, followed by nose gear touchdown at 2:35:04 a.m., and wheelstop at 2:35:36 a.m. STS-134 was the 25th and final flight for Endeavour, which has spent 299 days in space, orbited Earth 4,671 times and traveled 122,883,151 miles.

[Click here to take a look at Endeavour's Fact Sheet, including every mission's facts and figures.](#)

[Click here to find out everything you need to know about the legacy of Endeavour.](#)

[Click here to get a complete STS-134 mission overview and mission timeline.](#)

[Click here to view STS-134 images, watch the mission's video and listen to the mission's audio.](#)

[Click here to watch the YouTube video of Endeavour's final landing with commentary.](#)

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# NASA transforms way students learn about technology

By Rebecca Regan  
Spaceport News

Optimus Prime once said, "There's a thin line between being a hero and being a memory." Four fifth-graders from Union Park Elementary School in Orlando, Fla., recently became more than just a memory . . . to their classmates they are heroes for winning an award inspired by the leader of the Autobots in the popular "Transformers" franchise.

"Excelling in science, technology, engineering and math allows you to use your imagination and to go beyond what you see Optimus Prime doing," said Nona Cheeks, chief of the Technology Commercialization Office at NASA's Goddard Space Flight Center in Greenbelt, Md., during an award ceremony at the school May 25.

Cheeks and other NASA representatives were there to honor Isaliz Gonzales, Juliana Sanchez, Samantha Herrod and Grace Romano with 10-pound glass trophies for the short, creative video they produced for the 2010 NASA Optimus Prime Spinoff Competition. The goal of the video competition, sponsored by the Innovative Partnerships Program at Goddard and the action figure maker Hasbro, was to help students understand how NASA "transforms" technologies to benefit humankind on a daily basis.

"We wanted to give you kids a chance to express your creativity," said Darryl Mitchell, a Goddard engineer. "It's a very exciting time, our understanding of our universe and technology is evolving, and some of you may be the first to walk on Mars."

Kimberley Klein, the students' science lab teacher, said highlighting clothing that helps protect skin against exposure to harmful ultraviolet rays was an easy pick because of all the time Floridians spend baking in the hot sun.

She said that winning the award was quite a shock because the competition seemed pretty fierce.

"We did our best and we hoped for the best," Klein said. "It was a huge surprise because we looked at the other videos and they were very high-tech, they used computer



CLICK ON PHOTO

For NASA

Grace Romano, left and Isaliz Gonzales host a news program explaining the NASA technology that protects skin against exposure to harmful ultraviolet rays. To view the "Fabrics Protect Sensitive Skin from UV Rays" video, click on the photo.

programs, green screens . . . and we had us."

The teamwork attitude portrayed in their "Fabrics Protect Sensitive Skin from UV Rays" video is what won over the public after it was posted on YouTube. Nearly 70 videos were submitted by more than 170 students from 30 states in two age groups -- third through fifth grade and sixth through eighth grade. A panel of NASA judges reviewed and selected the winners from the top five videos in each age group.

"All our hard work has definitely paid off," Romano said after

hearing that she and her teammates will be receiving four complementary passes each to the Kennedy Space Center Visitor Complex.

"I'm very impressed by your group and your video . . . not only did you grasp the concept and explain it, but you also made it entertaining and that's important," said Dr. Lesley Fletcher, deputy division chief of Education at Kennedy. "Our hope is that you'll go into science, technology, engineering or math and you'll create things that make the world better for everyone."

"Dahlia" Senthilnathan Huh, an



CLICK ON PHOTO

NASA

The 10-pound glass 2010 NASA Optimus Prime Spinoff Awards on display. For more information about the competition, or to view photos and a message from Optimus Prime, click on the photo.

eighth-grader from Roberto Clemente Middle School in Germantown, Md., took home first place in the older age group. Her video was about how a star-mapping algorithm used on NASA's Hubble Space Telescope is helping scientists track endangered animals.

At the end of the Union Park award ceremony, Peter Cullen, the voice of Optimus Prime, got the attention of a couple hundred fourth- and fifth-graders by saying "Many challenges lie ahead . . . if we work together, we can face them, and we can beat them."

NASA plans to have the contest again this year, expanding the pool of contestants to ninth- through 12th-graders.

When Klein asked the students, "The next time I ask for volunteers to do this video, I'll get a lot more, right fourth-graders?" they all yelled "yes" in unison.



CLICK ON PHOTO

NASA

Four fifth-grade students from Union Park Elementary in Orlando, Fla., accept their 2010 NASA Optimus Prime Spinoff Awards. To view the "How the NASA Star Mapping Technology Help Save Him" video, click on the photo.



# STS-135 mission to carry more payload than ever before

By Linda Herridge  
Spaceport News

When Atlantis and its four veteran astronauts launch on the STS-135 mission to the International Space Station (ISS) in July, the shuttle's payload bay will be filled with more hardware, supplies, logistics, and spare parts by volume than previous space shuttle missions. Also, two of the 11 science experiments carried in the middeck were developed in the Space Life Sciences Laboratory, or SLSL, at Kennedy Space Center.

"This will be my first and only shuttle payload so I'm obviously very excited," said Spencer Woodward, who is the technical integration manager in the Engineering Directorate, "I hope to have many more payloads on future vehicles."

He helped develop the Forward Osmosis Bag (FOB), which is a modified product designed to convert untreated water into a potable drink.

Monica Soler, the FOB project engineer and a payload development engineer with Team QNA on the center's Engineering Services Contract, said she feels honored to have had such an integral role in the development of the experiment.

"I have mixed emotions as I watch my first payload also be the last science experiment to be conducted on the space shuttle to end such a vital part of history," Soler said.

Biological Research in Canisters-Symbiotic Nodulation in a Reduced Gravity Environment (BRIC SyNRGE), developed by Dr. Gary Stutte, with Team QNA at the SLSL last year, will investigate microgravity effects associated with microbe-host interactions and cell-to-cell communication using a plant-bacteria model system.

Susan Manning-Roach, also with Team QNA, is the project engineer who worked with several other engineers and scientists to ensure that the BRIC hardware would be compatible with the SyNRGE experiment.

"I have sentimental feelings that go all the way back to my first mission, STS-41D, in 1984, as I await the last shuttle launch," Manning-Roach said.



CLICK ON PHOTO

NASA/Jack Pfaller

Technicians garbed in protective wear, commonly known as "bunny suits," install cargo inside the Raffaello multi-purpose logistics module June 3 in the Space Station Processing Facility. Commander Chris Ferguson, Pilot Doug Hurley and Mission Specialists Sandy Magnus and Rex Walheim are targeted to lift off aboard space shuttle Atlantis on July 8. They will take Raffaello, packed with supplies, logistics and spare parts to the International Space Station. For more on STS-135, click on the photo.

The multi-purpose logistics module Raffaello and an external carrier that will hold the Robotic Refueling Mission (RRM) were processed and prepared for flight at the Space Station Processing Facility. The RRM was developed at Goddard Space Flight Center in Greenbelt, Md., and transported to Kennedy for final testing and processing.

Joe Delai, Kennedy's payloads mission manager for STS-135, said it will be bittersweet to watch the payloads for the last mission installed in Atlantis' payload bay June 16.

"The external carrier also will hold a pump module adapter plate," Delai said. "It will be used to transport a failed pump module from

the station back to Earth for investigation into why it failed."

During the mission, the RRM will be transferred from Atlantis to the station and eventually will be securely mounted to the space station's EXPRESS Logistics Carrier-4 platform to conduct robotic refueling and servicing technology demonstrations.

Frank Cepollina, the deputy associate director for NASA's Satellite Servicing Capabilities Office, said the RRM is an ISS experiment designed to demonstrate and test the tools, technologies and techniques needed to robotically refuel satellites in space.

"This will be the first on-orbit

attempt to test robotic refueling techniques for spacecraft not built with on-orbit servicing in mind, and is expected to reduce risks and lay the foundation for future robotic servicing missions," Cepollina said.

The RRM will remain on the station for two years and will be used to demonstrate robotic refueling of spacecraft as well as general space robotic repair and servicing operations.

Michael Kinslow, Boeing Space Operations payloads flow manager, said more than 60 NASA and Boeing workers performed the assembly, testing and final integration work for the payloads.

"Each mission is unique and has routine and new payload hardware providers," Kinslow said. "We've worked with many international customers for space station over the years and have developed long-term relationships."

For STS-135, Kinslow said there were some enhanced pumps and equipment arriving late for space station system racks, so Kennedy's operations and engineering teams developed a late cargo stowage plan.

"It was a great team effort and spirit for this final shuttle mission to support the space station," Kinslow said.

The science and research experiments will be stowed in 10 lockers in Atlantis' middeck July 7. According to ISS Utilization Integration Engineer Jennifer Wahlberg, these have a late stowage requirement because some of the experiment samples need to be loaded as late as possible.

"On this flight, we have more science in the middeck than on any recent mission and it will be challenging for the team," Wahlberg said. "It's nice to end the program with a big focus on space research, but it's sad to see the end of the space shuttle flights, which have accomplished so much."

Wahlberg and the rest of the STS-135 processing team are looking forward to the continuation of science research via other launch vehicles.

"It's very sad when an exciting program comes to an end," Delai said. "But I'm also very excited about what the future holds for NASA."



# Scenes Around Kennedy Space Center



NASA/Frankie Martin

## 2011 Lunabotics teams earn top honors

Thirty-six teams of undergraduate and graduate students from around the globe tested their robot designs in a challenge at the Kennedy Space Center Visitor Complex from May 26-28.

During the competition, teams remotely controlled excavators, called lunabots, to determine which could collect the most simulated lunar soil during a specified timeframe. The first place mining competition team is Laurentian University in Ontario, Canada (above). The Joe Kosmo Award for Excellence winner is the University of North Dakota in Grand Forks (below).

Winners in other competition categories are:

- On-Site Mining Award Winners: University of North Dakota and West Virginia University
- Judges Innovation Design Award: Embry-Riddle

Aeronautical University in Prescott, Ariz.

- Arizona Communications Efficiency Award: Laurentian University
- Team Spirit Award: University of Alabama
- Slide Presentation Award: Embry-Riddle Aeronautical University in Daytona Beach, Fla.
- Outreach Project Award: Montana Tech, University of Montana
- Systems Engineering Paper Award: John Brown University in Siloam Springs, Ark.

The competition is designed to engage and retain students in the science, technology, engineering and mathematics disciplines critical to NASA missions.

For more information about the competition, visit: <http://www.nasa.gov/lunabotics>



NASA/Jim Grossmann

Space shuttle Atlantis' STS-135 crew participates in a crew equipment interface test, or CEIT, in the Space Station Processing Facility on June 6. Standing inside the Raffaello multi-purpose logistics module, which will be packed with supplies, logistics and spare parts for their mission to the International Space Station, are Mission Specialist Sandy Magnus, left, Commander Chris Ferguson, Mission Specialist Rex Walheim and Pilot Doug Hurley. The purpose of CEIT is for flight crew members to become familiar with the payload they will be working with and delivering to the station. STS-135 also will return a failed ammonia pump module on the Lightweight Multi-Purpose Experiment Support Structure Carrier, or LMC, to help NASA better understand the failure mechanism and improve pump designs for future systems. STS-135, targeted to launch July 8, will be the 33rd flight of Atlantis, the 37th shuttle mission to the space station, and the 135th and final mission of NASA's Space Shuttle Program. For more on the STS-135 crew, click on the photo.



NASA/Jack Pfaller

An adult osprey keeps an eye on its young from a pole near the Press Site parking lot. The Press Site is at the Turn Basin in Launch Complex 39, making it an ideal osprey nesting place. The Merritt Island National Wildlife Refuge, located inside Kennedy Space Center's boundaries, provides a habitat for many types of wildlife, including the osprey, and 330 species of birds. For information on the refuge, click on the photo.



NASA/Jim Grossmann

Above: Kennedy Center Director Bob Cabana, right, hands a check for \$1,186 to Helmut Hiller, environmental and wildlife specialist-safety manager for the SPCA of Central Florida. Below: The winning team of the 2011 KSC All-American Picnic Chili Cook-off People's Choice award chose the charity. The team, comprised of Boeing Co. workers, calls itself the Fire Breathers. To learn more about the SPCA, click on the photo above.



NASA

NASA employees Stephanie Hadaway, left, and Lien Moore show some of the mango trees sold by the Asian-Pacific American Connection (APAC) to celebrate Asian-Pacific Islander Heritage Month. APAC transported 107 "Miracle Mango" trees from a nursery in Lake Worth, Fla., to the Space Coast Nursery on Merritt Island, Fla. The name miracle is based on the cultivar's ability to consistently produce two crops of fruit a year. The trees, in three-gallon pots, will be offered again soon. To learn more about the "Miracle Mango" trees, contact Bob Moore at 867-4462 or [robert.e.moore@nasa.gov](mailto:robert.e.moore@nasa.gov).



NASA/Gina Mitchell-Ryall

The Kennedy Space Center Fire Rescue Team was among those who received a Gold Dollar award from Kennedy Center Director Bob Cabana on May 12. The Gold Dollar award, which was started by former center director Roy Bridges in 1997, is for model behavior -- either intervening to stop an unsafe condition or satisfying the customer.



# Atlantis provides majestic final rollout



*"This just makes me feel so proud. I can say that I am a part of this forever."*

**Sharon McDougale**  
with United Space Alliance at Johnson Space Center

We asked several people attending space shuttle Atlantis's move to Kennedy's Launch Pad 39A for its STS-135 mission what was going through their minds during the Space Shuttle Program's final scheduled rollout.

*"A true, modern-day masterpiece. She wears her history very well. It is great to be a part of this epic evening."*

**Clifford Howes**  
of Melbourne Beach, Fla.



*"I was fortunate to see the first rollout and now I've seen the last one. It sure has been great to be part of history."*

**Sean Slater**  
of Cocoa Beach, Fla.



*"It is so beautiful to see this majestic bird crawl to her nest for one final launch. I am so proud to be a part of the Space Shuttle Program."*

**Brent Lohaus**  
of Merritt Island, Fla.



*"It's awesome. Not only is it beautiful, but it really makes me wonder how we were able to put all these parts together in one piece."*

**Bonni Heffelfinger**  
of Cocoa, Fla.



*"Looking at it makes me feel very proud that I can say my dad was a part of the Space Shuttle Program and Apollo."*

**Susan Jeter**  
of Cocoa, Fla.



*"Looking at space shuttle Atlantis reminds me that some of our real heroes are astronauts. It truly is America at its best."*

**Scott Van Leeuwen**  
of Salt Lake City



*"It sure is an awesome sight to see. Not only is it history in the making, but it is the first step to what lies ahead."*

**Brian Simms**  
of Orlando, Fla.



## Others said . . .

*"I've been waiting a long time to see this and knowing that this is the final time . . . it really makes this special."*

**Chandresh Borsadia**  
of Rajkot, India

*"It's been an honor to work on this team. We really made something of ourselves."*

**John Reali**  
of Cape Canaveral, Fla.



CLICK ON PHOTO

NASA/Jack Pfaller

Bright xenon lights greet space shuttle Atlantis as the spacecraft makes its final move from Kennedy's Vehicle Assembly Building. "Rollout," as it's called, to Launch Pad 39A at Kennedy Space Center began at 8:42 p.m. EDT on May 31. It took the crawler-transporter about seven hours to carry the shuttle, attached to its external tank and solid rocket boosters atop a mobile launcher platform, to its seaside launch pad. The milestone move paves the way for the launch of the STS-135 mission to the International Space Station, targeted for July 8. STS-135 will be the 33rd flight of Atlantis, the 37th shuttle mission to the space station, and the 135th and final mission of NASA's Space Shuttle Program. For more information on Atlantis, click the photo.

*"It's somewhat bitter-sweet. It's angelic as it moves to the pad . . . like an ethereal creature."*

**Brandon Fibbs**  
of Los Angeles





# Meeting of the minds kicks off hurricane season preps

By Rebecca Regan  
Spaceport News

It's been several years since a tropical storm or hurricane ravaged the Space Coast, so Kennedy Space Center's Emergency Operations Center, or EOC, is warning against the kind of complacency that typically sets in as experiences fade into memory.

The best thing for people to do, emergency management officials say, is come up with a plan for family members. If a threatening storm develops, the hard decision will already have been made. And if no storms come up, the plan can be dusted off during the next season.

About 150 hurricane coordinators and ride-out team members gathered in Kennedy's Training Auditorium on June 1 to brush up on their own storm-related planning, preparedness, communication and response skills.

Russell Romanella, associate director for Engineering and Technical Operations at Kennedy, kicked off the meeting by talking about the Labor Day hurricane that hit the Florida Keys in 1935. It was the first of three Category 5 hurricanes the United States endured during the 20th Century.

"People caught in the open were blasted by sand with such force that it stripped away their clothing, children were ripped from their parents' arms by the intense wind and families were washed out to sea by an 18- to 20-foot storm surge," Romanella said. "That's an example of the strength that a storm has, what it can do, why we need to prepare for it, and that's why we're here today."

Bart Hagemeyer, the meteorologist-in-charge of the National Weather

Service Forecast Office in Melbourne, Fla., was the meeting's guest speaker. Hagemeyer said he and his colleagues fear that many people are in a current state of "hurricane denial."

"The truth is, very few families have complete, well-thought-out hurricane plan," said Hagemeyer. "Almost all of our staff has to be on duty and they need to make sure their family is safe so they can focus on their important mission. So this choice of mission or family is what we want to avoid."

To avoid that difficult choice, Hagemeyer's staff is required to have personal plan of action. That's a rule Kennedy's EOC is urging employees to emulate this hurricane season.

According to Wayne Kee, senior leader of Kennedy's EOC, his team



CLICK ON PHOTO

NASA/NOAA

The GOES-13 satellite follows two low-pressure systems on June 3, during what is expected to be an active 2011 Hurricane Season. To follow storms with NASA, click on the photo.

prepares for disasters year-round by testing communications, backing up systems, performing radio checks and simulating ride-out formations. There are about 120 members on the ride-out team, including mostly contractor employees supporting each directorate, along with the senior leader, incident commander/NASA Emergency Management officer and a NASA test director.

"The size and intensity

of the storm will determine how many members remain on center," said Kee. "If it's a Category 4 or 5, we tell most of our team to button down their homes and evacuate the area."

The 2011 Atlantic Hurricane Season runs through November 30 and the National Oceanic and Atmospheric Administration, or NOAA, is predicting 12 to 18 named storms.

## Stay Informed

Stay storm savvy at work by visiting Kennedy's Emergency Operations website at <http://eoc.ksc.nasa.gov>.

For valuable information on family disaster planning, check out [www.ready.gov](http://www.ready.gov). In the event of an emergency, NASA TV will provide information to employees on these channels.

**Kennedy's Internal Cable:** Channel 46

**Brighthouse Networks:** Channel 144

**Direct TV:** Channel 376

Information also can be obtained by calling these phone numbers.

**Kennedy:** 321-861-7900

**Toll Free:** 866-572-4877

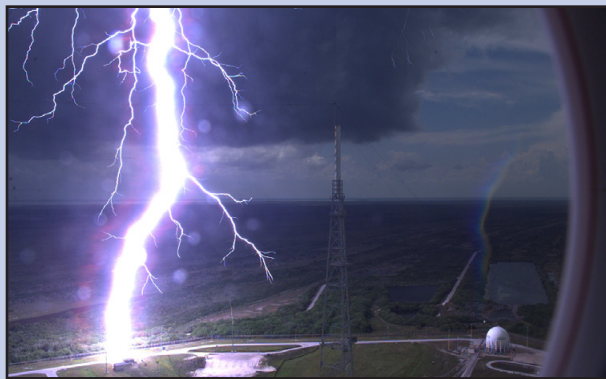
**United Space Alliance:** 321-867-3900

**Report Damage:**

321-867-1084 or

321-867-1506

## Lightning season strikes Space Coast



NASA

The new comprehensive weather instrumentation system on Kennedy Space Center's Launch Pad 39B captures a lightning strike on May 27.

Known as "Lightning Alley," Central Florida encounters an astronomical number of high-power, high-heat and high-speed lightning bolts from May through September. To stay safe on the job and at home, listen for watches and warnings.

**Phase 1 Lightning Watch:** Lightning is

expected within about six miles of the specified locations and is issued up to 30 minutes before the lightning is predicted.

**Phase 2 Lightning Warning:** Lightning is imminent or occurring within about six miles of the specified locations.

**Level 1:** Schedule outdoor activities to avoid the lightning hazard. Use the local forecasts from the National Weather Service

in Melbourne, Fla., at [www.srh.noaa.gov/mlb](http://www.srh.noaa.gov/mlb). Know the local weather patterns. The National Weather Service Graphical Hazardous Weather Outlook is issued each morning and includes a map indicating where lightning most likely will occur during the next 24 hours.

**Level 2:** Know when and where to go for lightning safety. Watch the skies for signs of approaching or locally developing thunderstorms. If you hear thunder, the storm is getting close enough to be a danger. A safe place from lightning is a large fully enclosed building with wiring and plumbing. A vehicle with a solid metal roof and solid metal sides also offers good protection. When indoors, stay away from conducting paths to the outside.

**Level 3:** Risk reduction. If you must be outside with thunderstorms in the area, you are in danger.

Only do this if there is no alternative. Avoid elevated or wide-open areas. Do not go under trees to keep dry. Avoid swimming, boating and fishing. Small open structures provide no lightning protection.

**Level 4:** First aid. All lightning deaths are from cardiac arrest or stopped breathing. Use CPR or rescue breathing, as needed. Have someone call 911. If available, use an Automated External Defibrillator (AED). If the cardiac arrest is due to fibrillation, the AED works better than CPR. If it is not fibrillation, then the AED won't fire and CPR should resume.

For more information, visit [www.lightningsafety.noaa.gov](http://www.lightningsafety.noaa.gov).

For lightning safety training, contact the 45th Weather Squadron at [william.roeder@patrick.af.mil](mailto:william.roeder@patrick.af.mil) or 321-853-8410.

William P. Roeder of the 45th Weather Squadron contributed to this report.

## NASA Employees of the Month: June



NASA/Carl Winebarger

Employees for the month of June are, from left, Robert Van Arsdalen, Engineering Directorate; Fernald Rodriguez, Launch Services Program; Keith Meholic, Safety and Mission Assurance Directorate; DUC Ngo, Information Technology and Communications Services; Michelle Edelman, Chief Financial Office; Daniel Keenan, Engineering Directorate; Melissa Jones, Launch Vehicle Processing Directorate; Anjanette Wicks, Center Operations; Dunamis Pedraza, Procurement Office. Not pictured is, Jim Medina, Constellation Project Office.

## Kennedy Space Center Calendar

\* All times are Eastern

June 15	Sharon Wong, guest speaker, "Diversity, Leadership, Empowerment and Beyond" in honor of Asian-Pacific American Heritage Month; Operations and Checkout Building, Mission Briefing Room; 11 a.m. to 1 p.m.
June 16	Bonnie St. John, guest speaker, "Perseverance = Success" Spring 2011 Diversity Event; Training Auditorium; 10 a.m.
June 17	KSC B. EST BBQ; KARS I Clubhouse (Area No. 2); 3:30 to 6:30 p.m.

## Looking up and ahead . . .

\* All times are Eastern

Scheduled for June 10	Launch/VAFB: Delta II, Aquarius / SAC-D Satellite; 10:20 a.m.
Targeted for July 8	Launch/KSC: Atlantis, STS-135; 11:26 a.m.
Planned for July 20	Landing/KSC: Atlantis, STS-135; 7:06 a.m.
No Earlier Than July 14	Launch/CCAFS: Atlas V, GPS IIF-2; 2:51 p.m.
Aug. 5	Launch/CCAFS: Atlas V, Juno; 11:40 a.m.
No Earlier Than September	Launch/CCAFS: SpaceX Falcon 9, Dragon C2; TBD
Sept. 8	Launch/CCAFS: Delta II Heavy, GRAIL; 8:37 a.m. and 9:16 a.m.
No Earlier Than Oct. 8	Launch/CCAFS: SpaceX Falcon 9, Dragon C3; TBD
Oct. 25	Launch/VAFB: Delta II Heavy, NPP; 5:47 to 5:57 a.m.
No Earlier Than Nov. 25	Launch/CCAFS: Atlas V, Mars Science Laboratory; 10:21 a.m.
No Earlier Than December	Launch/CCAFS: Delta IV-Heavy, NROL-15; TBD

## Kennedy Space Center Activities

### 2011 KSC Spring Flag Football League Championship Game (June 8)

ROWDIES 31, ISLAUGHTER 14

If you're interested in playing flag football in the fall, contact Matt Jimenez at 321-867-4509 or [matthew.j.jimenez@nasa.gov](mailto:matthew.j.jimenez@nasa.gov) or Dustin Dyer at 321-861.6160 or [dustin.e.dyer@nasa.gov](mailto:dustin.e.dyer@nasa.gov). Games are played Wednesdays at KARS Park I.

### 2011 KSC Tennis League Rankings, Leaders and Upcoming Schedule

#### Singles

Group 1 Rankings	Group 2 Rankings	Group 3 Rankings	Group 4 Rankings	June 9 Schedule
Norm Hosan	Billy Specht	Miguel Rodriguez	Sergio Briceno	Hosan vs. Young
Ken Young	Bob Ingham	James Hudleston	Kate Liu	Staubus vs. Wheeler
Calvert Staubus	Scott DeWitt	Ed Bertot	Lashelle McCoy	Specht vs. Ingham
Alan Wheeler	Kevin Panik	Joe Zeppuhar	Laura Scott	DeWitt vs. Panik
				Rodriguez vs. Hudleston
				Bertot vs. Zeppuhar
				Briceno vs. Liu
				McCoy vs. Scott

The league seeks new players and is open to all Kennedy civil service and contractor personnel and dependents. Matches are played Thursdays at KARS Park I and II. For more information, contact Alan Wheeler at 321-867-3565 or [alan.j.wheeler@nasa.gov](mailto:alan.j.wheeler@nasa.gov).

#### Doubles

##### COURT LEADERS FROM JUNE 7

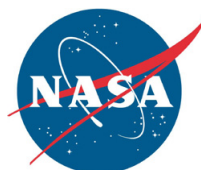
Court 9 - Chip Hooper	Court 7 - Rod Downing	Court 4 - Kate Liu
Court 8 - Ron Feile	Court 6 - Jeff Address	Court 3 - Debbie dela Fuente

##### COURT GROUPS FOR JUNE 14

Court 9	Court 8	Court 7	Court 6
Chip Hooper	Miguel Rodriguez	Andy Maffe	Alan Wheeler
Art Shutt	Dave Davies	Scott Schilling	Teresa Bollig
Brian Klein	Andy Maffe	Jay Hebert	Norm Ring
Ron Feile	Rod Downing	Tom Li	Amy Lombardo
Court 4	Court 3	Court 2	Court 1
Jeff Address	Laura Rochester	TBD	TBD
Laura Scott	Ted Moore		
Kate Liu			
Debbie dela Fuente			

The league seeks new players and is open to all Kennedy civil service and contractor personnel and dependents. Matches are played Tuesdays at KARS Park I and II. For more information, contact Teresa Bollig at 321-264-8575 or [teresa.e.bollig@nasa.gov](mailto:teresa.e.bollig@nasa.gov).

If you'd like your Kennedy Space Center athletic activity to be published in Spaceport News, send an e-mail to [KSC-Spaceport-News@mail.nasa.gov](mailto:KSC-Spaceport-News@mail.nasa.gov)



John F. Kennedy Space Center

## Spaceport News

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